

## MECHANISMS OF AGEING AND DEVELOPMENT

### VOLUME CONTENTS

*Volume 69 (1993)*

Comparison of the Gompertz and Weibull functions as descriptors for human mortality distributions and their intersections .....	1
D.A. Juckett and B. Rosenberg (East Lansing, MI)	
The Gompertz function: distinguishing mathematical from biological limitations .....	33
J.E. Riggs (Morgantown, West VA)	
Ontogenic activities and interactions of the lactate dehydrogenase isozymes with cellular structure in the guinea pig .....	37
W. Murrell, D. Crane and C. Masters (Bari, Italy)	
Relationship between respiratory burst and adhesiveness capacity in elderly polymorphonuclear cells .....	53
C. Tortorella, A. Ottolenghi, P. Pugliese, E. Jirillo and S. Antonaci (Bari, Italy)	
Have human biological functions evolved in support of a life-span? ....	65
R.A. Weale (London, UK)	
Changes in CD45 isoform expression after influenza vaccination .....	79
J.E. McElhaney, M.J. Pinkoski and G.S. Meneilly (Edmonton and Vancouver, Canada)	
Stress-age syndrome .....	93
V.V. Frolkis (Kiev, Ukraine)	
Age-related changes in production of interleukin-7 (IL-7) by murine long-term bone marrow cultures (LTBMC) .....	109
L.W. Updyke, K.S. Cocke and D. Wierda (Greenfield, IN)	
Nerve growth factor receptor immunoreactivity in the cerebellar cortex of aged rats: effect of choline alfoscerate treatment .....	119
J.A. Vega, C. Cavallotti, M.E. Del Valle, M. Mancini and F. Amenta (Camerino and Rome, Italy; Oviedo, Spain)	
Alteration of human platelet protein kinase C with normal aging .....	129
H. Matsushima, S. Shimohama, Y. Yamaoka, J. Kimura, T. Taniguchi, M. Hagiwara and H. Hidaka (Kyoto and Nagoya, Japan)	
Changes in superoxide radical formation, lipid peroxidation, membrane fluidity and cathepsin B activity in aging and spawning male Chinook salmon .....	137
M. Sawada, U. Sester and J.C. Carlson (Waterloo, Canada)	
Escape from in vitro aging in SV40 large T antigen-transformed human diploid cells: a key event responsible for immortalization occurs during crisis .....	149
S.-I. Imai, F. Saito, T. Ikeuchi, K. Segawa and T. Takano (Tokyo, Japan)	

Body composition of physically inactive and active 25-month-old female rats .....	161
C.A. Slentz and J.O. Holloszy (Omaha, NE; St. Louis, MO)	
A step in the process of prostacyclin production whose decline leads to the age-related decrease in production by human umbilical vein endothelial cells in culture .....	167
N. Hasegawa and K. Yamamoto (Tokyo, Japan)	
Age-related changes in the mitogenic activity of heparin-binding growth factors in rat sera.....	179
Y. Yonezawa, H. Kondo and T. Noumura (Tokyo and Urawa, Japan)	
Phorbol ester PMA stimulates protein synthesis and increases the levels of active elongation factors EF-1 $\alpha$ and EF-2 in ageing human fibroblasts .....	193
A. Derventzi, S.I.S. Rattan and B.F.C. Clark (Denmark)	
The effects of aging on the function of alveolar macrophages in mice...	207
Y. Higashimoto, Y. Fukuchi, Y. Shimada, K. Ishida, M. Ohata, T. Furuse, C. Shu, S. Teramoto, T. Matsuse, E. Sudo and H. Orimo (Tokyo, Chiba and Wakayama, Japan)	
Age, as well as turnover kinetics, regulates brain/gut repair.....	219
R.J. Greenstein (New York, NY)	
Author Index Volume 69.....	233
Subject Index Volume 69.....	235
Volume Contents Volume 69.....	237

